SHIP SYSTEM	SUBSYSTEM	MRC CODE	
Hull Structural Bulkheads	Tanks		
SYSTEM	EQUIPMENT	RATES GS-11/12	M/H
Tanks and Voids			
MAINTENANCE REQUIREMENT DESCRIPT	TON	TOTAL	. M/H
1. Conduct SEMAT Assessmen and Voids.	t procedure for Tanks	ELAPSE	O TIME
Afloat, OPNAVINST 5100 2. Ensure all tag-out pro ship/shore instruction	cedures are in accordance v	with current	-
	2. Coating Condit Reference Stai 3. T-bar Coating Reference Stai e 3, 4. Preservation/F COMNAVSURFLAN Voids 5. [09814] Digita photo disks 6. [2917] Camera types/models) W/C provide dicamera	ndards Condition ndards Protocols for Tanks and al camera (all , No NSN igital	
DISTRIBUTION STATEMENT D Distribution authorized to	DOD components and DOD co.	ntractors	89
only; critical technology;	August 1999. Other reques	ts for this	9
	to Naval Sea Systems Commod that will prevent discless of the document.		AAAA
LOCATION		DATE August 1999	, z

PROCEDURE NOTE 1: Accomplish assessment during availability. NOTE 2: All preliminaries must be accomplished by S/F, contractor, etc prior to SEMAT assessment. NOTE 3: Closed, non-ventilated spaces can be very dangerous. Personnel entering tanks and voids must be trained in appropriate safety procedures. Preliminary a. Ensure tank or void has been certified gas-free and safe for human entry. b. Review JSNs from the ship's CSMP for discrepancies to be assessed under this procedure. c. Review SNAPSHOTS Database for previous inspection results. d. Review CNSL Departure from Specs data. e. Review 3-M history for previous maintenance actions. f. Give the Commanding Officer a brief presentation explaining SEMAT and what you intend to accomplish. 1. Conduct Target Assessment Procedure for Tanks and Voids. The Tank and Void Inspection Form is divided into twelve discrete areas. They are: General Data, Access Data, Ladder Data, Vent/Overflow Data, Tank Level Indicator (TLI) Data, Sounding Tube Data, Cathodic Protection Data, Coating Data, Structural Integrity Data, Seachest Data, Piping Data, and Tank Closeout. A block for Additional Comments is available for explanation of problems found. A. Enter the following information into the section of the Tank and Void Inspection Form: ADD - adds new record UPDATE - updates existing record DELETE - deletes record from database HISTORY - stores record in history (indicating HISTORY N 읶 will not change current tank status) 12 1. UIC - enter the ship's UIC 2. Ship's Class - enter the ship's class 3. Ship's Name - enter the ship's name Hull - enter the ship's hull number Tank - enter the compartment number (e.g. 4-127-10-V) If unknown, read the number from the tank label plate. If there is no tank label plate, verify the tank number from damage control drawings. 6. <u>Service</u> - enter the description indicating the use or service of the tank being assessed. 7. SWLIN - enter the Ship Work Line Item Number (SWLIN), a 5 digit number used for designating maintenance and repair boundaries. 8. Area - Enter the surface area of the tank or void being assessed in square feet. NOTE 4: Tank area = Total containment area + surface area of all AAAA internal supporting structure, piping etc.

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9. Gallons - enter gallons as verified by Ship's Force [Corrected for 100%] 10. Solid Ballast - enter as: YES, NO, UNKN 11. MC - enter Work Center responsible for the tank 12. Access - enter compartment, tank or void number(s) that must be accessed in order to get into the tank or void that is being assessed. 13. APL -enter APL 14. RIN - enter RIN 15. Key Code - enter Key Code (1 = visual in-tank inspection, 2 = on-board data collection, 3 = non-validated data) 16. Source - enter source (i.e. dc plates, oil king, ship's plan, POSSEE, Tank & Void Inspection) 17. Date - enter assessment date (All assessment dates should be the same for the overhaul period) 18. Inspection reason - enter the reason for the inspection (CMP, Emergent Repair, Other) 19. Inspector's Name - enter inspector's name and rank COTE 5: Assessor shall photograph one 'typical condition photo' for each tank or void for each area of the tank or void assessment identified with a discrepancy and for which an OPNAV 4790/2K or Material Assessment Form will be submitted. B. Enter the following information into the Access Data section of the Tank and Void Inspection Form: 20. Tank Top Corrosion - check for excessive corrosion of the portion of the overflow piping where it exits the tank as well as the space(s) directly above the tank, enter as: UNKN, SAT, UNSAT 21. Manhole cover, gasket and fasteners - check the physical condition of the access and associated hardware, enter as: UNKN, SAT, UNSAT	A. Enter the following information into the General Data section of the Tank and Void Inspection Form: (cont'd)	
assessment identified with a discrepancy and for which an OPNAV 4790/2K or Material Assessment Form will be submitted. B. Enter the following information into the Access Data section of the Tank and Void Inspection Form: 20. Tank Top Corrosion - check for excessive corrosion of the portion of the overflow piping where it exits the tank as well as the space(s) directly above the tank, enter as: UNKN, SAT, UNSAT 21. Manhole cover, gasket and fasteners - check the physical condition of the access and associated hardware, enter as: UNKN, SAT, UNSAT	(corrected for 100%) 10. Solid Ballast - enter as: YES, NO, UNKN 11. WC - enter Work Center responsible for the tank 12. Access - enter compartment, tank or void number(s) that must be accessed in order to get into the tank or void that is being assessed. 13. APL -enter APL 14. RIN - enter RIN 15. Key Code - enter Key Code (1 = visual in-tank inspection, 2 = on-board data collection, 3 = non-validated data) 16. Source - enter source (i.e. dc plates, oil king, ship's plan, POSSEE, Tank & Void Inspection) 17. Date - enter assessment date (All assessment dates should be the same for the overhaul period) 18. Inspection reason - enter the reason for the inspection (CMP, Emergent Repair, Other)	
section of the Tank and Void Inspection Form: 20. Tank Top Corrosion - check for excessive corrosion of the portion of the overflow piping where it exits the tank as well as the space(s) directly above the tank, enter as: UNKN, SAT, UNSAT 21. Manhole cover, gasket and fasteners - check the physical condition of the access and associated hardware, enter as: UNKN, SAT, UNSAT	each tank or void for each area of the tank or void assessment identified with a discrepancy and for which an OPNAV 4790/2K or Material Assessment Form will be submitted.	
AAAA	section of the Tank and Void Inspection Form: 20. Tank Top Corrosion - check for excessive corrosion of the portion of the overflow piping where it exits the tank as well as the space(s) directly above the tank, enter as: UNKN, SAT, UNSAT 21. Manhole cover, gasket and fasteners - check the physical condition of the access and associated hardware, enter as:	3 OF
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PROCEDURE (Contd) C. Enter the following information into the Ladder Data section of the Tank and Void Inspection Form: Fabricated Ladder Present - enter as: YES, NO, UNKN 23. Fabricated Ladder Damaged - a fabricated type ladder is considered damaged if any of the brackets securing the ladder to the bulkhead or tank bottom are broken, or if there is severe corrosion or wear resulting in thinned, broken or missing rungs; enter as: YES, NO, UNKN, N/A 24. Fabricated Ladder Material - enter as: AL, CRES, STEEL, GS 25. Welded Rungs Present - enter as: YES, NO, UNKN 26. Welded Rungs Damaged - welded rungs are considered damaged if attaching welds or rungs themselves are significantly thinned or missing, enter as: YES, NO, UNKN, N/A 27. Hand/Foot Holes Present - enter as: YES, NO, UNKN 28. Hand/Foot Holes Damaged - hand/foot holes are considered damaged if the metal is corroded to the point of being thinned to a 'knife edge' condition, enter as: YES, NO, UNKN, N/A D. Enter the following information into the **Vent/Ov Data** section of the Tank and Void Inspection Form: Vent/Overflow 29. <u>Vent/Overflow in tank</u> - enter as: YES, NO, UNKN 30. Check Valve Installed - On JP tanks, a "nest" of $\overline{5}$ tanks (typically) have 4 tanks overflow into one. This tank then overflows to the ship's exterior via _ an overflow box with a flapper valve. The overflow pipes are tied together in a common header that runs 읶 to the overflow tank. Each tank's overflow pipe is 2 fitted with a check valve that prevents back flow of oil from another tank in an overflow condition. This check valve may or may not be in close proximity to the tank top. The valve should be found and verified that it is installed, enter as: YES, NO, UNKN 31. Vent/Overflow Line CUNI 1/2 up - There should be a flange or bimetallic weld approximately mid-way between the third and fourth decks. If there is no flange or bimetallic weld, check the piping all the way up with a magnet. To reduce the effects of corrosion on vent/overflow piping, the piping should be constructed of a Copper/Nickel (CUNI) alloy at least half way up the piping system. CUNI piping has no magnetic properties and is highly resistive to corrosion. Enter as: YES, NO, UNKN, N/A AAAA

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PROCEDI			
Ε.	Ente	er the following information into the Tank Level Indicator	or
	(TL	I) Data section of the Tank and Void Inspection Form:	
	32.	TLI present in tank - enter as:	
		YES, NO, UNKN	
	33.	<u>TLI damaged</u> - enter as:	
		YES, NO, UNKN, N/A	
	34.	<u>TLI type</u> - enter as:	
		GEM, KING, GAGE, TELEFLEX, METRITAPE, UNKN, N/A	
	35.	Old Tank Top Penetration present - Previous TLIs	
		required 2 tubes (usually 1/4 to 1/2 inch diameter)	
		penetrating the top of the tank. When new TLIs	
		were installed, these tubes were frequently cut	
		off 3 to 6 inches above and below the tank top	
		instead of being completely removed and the	
		penetrations sealed. enter as:	
		YES, NO, UNKN	
	36.	Old Tank Top Penetration Welded Closed - The tank	
		top penetration(s) for an old, removed TLI should	
		be sealed by welding the penetration closed. enter as:	
		YES, NO, UNKN, N/A	
	37.	King Gage Tubing Removed/Plug Welded - All King gage	
		TLI tubing should be removed and the tank top	
		penetration plug welded. enter as:	
		YES, NO, UNKN, N/A	
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	er the following information into the Sounding Tube Data tion of the Tank and Void Inspection Form:	
38.	Sounding Tube Present in Tank - Some tanks require a non-electrical method for determining the level in the tank. These tanks would be equipped with a sounding tube, through which a measuring device (a tape with a weighted "BOB") may be lowered into the tank. enter as: YES, NO, UNKN	
39.	Sounding Tube Damaged - Inspect the sounding tube for any indication of damage. Damage may be severe corrosion or physical damage to the sounding tube which could result in the impingement of the measuring device, rendering the resulting reading invalid. Enter as: YES, NO, UNKN, N/A	
40.	Deck Fitting Damaged - Sounding tubes have deck fittings with removable covers to provide access to the tube as well as to prevent debris from entering the tube. Damage to the deck fitting may range from severe corrosion to mechanical damage to the securing threads. Enter as: YES, NO, UNKN, N/A	
41.	Stuck "BOBS" - A "BOB" is a weight attached to the end of a sounding tape which allows the tape to reach the bottom of the sounding tube to obtain tank level readings. Sometimes the tape used to lower the "BOB" down the sounding tube will break and the "BOB" will drop to the bottom of the sounding tube and rest against the striker plate. Check the striker plate to see if a "stuck "BOB" is present. Enter as: YES, NO, UNKN, N/A	PAGE
42.	Is Material CUNI - As with the vent/overflow piping, Copper/Nickel (CUNI) piping has been proven to be highly resistive to corrosion and is the material of choice for piping systems regularly exposed to corrosive liquids. This can be tested using a magnet. CUNI piping has no magnetic properties. Enter as: YES, NO, UNKN, N/A	至 6 0F 12
43.	Vent Holes Present - Sounding tubes require vent holes at regular intervals to permit liquid free flow which, in turn, will provide a more accurate reading of the tank level. Minimum requirement is for the top of the sounding tube to be vented with a 1/2 inch	
	minimum diameter hole within the tank. Enter as: YES, NO, UNKN, N/A	
		AAAA

PROCEDI			
G.		er the following information into the Cathodic	
		tection Data section of the Tank and Void	
	Insp	pection Form: (cont'd)	
	52.	Bottom Depletion Percentage - Enter as:	
		GT 50%, LT 50 %, UNKN, N/A	
		(GT = greater than, LT = less than)	
	53	Sides Depletion Percentage - Enter as:	
	55.	GT 50%, LT 50 %, UNKN, N/A	
		GI 50%, LII 50 %, UNKN, N/A	
	The Air	the fellowing information into the	
n.		er the following information into the Coating Data	
	seci	tion of the Tank and Void Inspection Form:	
		_ , _ , . ,	
	54.	Tank Painted - Enter as:	
		YES, NO, UNKN	
	55.	<u>Date Tank Painted</u> - Enter date tank painted.	
	56.	Surface Preparation Method - Enter as:	
		Hand Tool Clean (SP2), Pwr Tool Clean (SP3),	
		Abrasive Blast to Near White (SP10),	
		Power Tool Clean to Bare Metal (SP11), UNKN, N/A	
	57.	Painting Method - Enter as:	
		100% Recoat, Touch-up & Overall coat, Spot Touch-up only,	
		UNKN	
	58	Paint System 1st Coat - Enter paint system 1st coat	
	50.	Daint System and Coat Enter paint system and coat	
	59.	Paint System 2nd Coat Finter paint System 2nd Coat Finter paint system 2nd coat	
	60.	Paint System 2nd Coat Paint System 3rd Coat Paint System 4th Coat Paint System 2nd Coat Paint System 3rd Coat	
	bΙ.	Paint System 4th Coat - Enter paint system 4th coat	
	62.	Total Square Feet of Tank Preservation in Condition 1 -	-
		Enter total square feet of tank preservation in	
		condition 1	
	63.	Total Square Feet of Tank Preservation in Condition 2	Ѿ
		- Enter total square feet of tank preservation in	PAGE
		condition 2	m
	64.	Total Square Feet of Tank Preservation in Condition 3	∞
		- Enter total square feet of tank preservation in	1 _ 1
		condition 3	유
	65.	Total Square Feet of Tank Preservation in Condition 4	1 1
		- Enter total square feet of tank preservation in	12
		condition 4	\Box
	66	Paint Condition Top - Enter as:	1 1
	00.	$\frac{1}{0 = \text{UNKN}}, 1 = \frac{1}{9000}, 2 = \text{FAIR}, 3 = \text{POOR},$	1 1
		4 = BAD, 10 = N/A	\vdash
	67.		1 1
	07.	0 = UNKN, 2, 4, 6, 8, 10 = NO BLISTERS, N/A	1 1
	c0		1 1
	68.	Blistering Density Top - Enter as: U = UNKN, F = FEW, M = MED, MD = MEDDENSE,	1 1
			1 1
	CO	D = DENSE, N/A	\vdash
	69.	Paint Condition Sides - Enter as:	
		0 = UNKN, 1 = GOOD, 2 = FAIR, 3 = POOR,	L_I
		4 = BAD, 10 = N/A	\Box
	70.	Blistering Size Sides - Enter as:	
		0 = UNKN, 2, 4, 6, 8, 10 = NO BLISTERS, N/A	\sqcup
	71.		
		U = UNKN, F = FEW, M = MED, MD = MEDDENSE,	≥
		D = DENSE, N/A	&
	72.	Paint Condition T-Bars - Enter as:	"
		0 = UNKN, 1 = GOOD, 2 = FAIR, 3 = POOR,	\vdash
		4 = BAD, 10 = N/A	
			-

PROCEDURE (Contd) H. Enter the following information into the section of the Tank and Void Inspection Form: (cont'd) 73. <u>Blistering Size T-Bars</u> - Enter as: 74. Blistering Density T-Bars - Enter as: U = UNKN, F = FEW, M = MED, MD = MEDDENSE, D = DENSE, N/A 75. Paint Condition Bottom - Enter as: 0 = UNKN, 1 = GOOD, 2 = FAIR, 3 = POOR, 4 = BAD, 10 = N/A76. Blistering Size Bottom - Enter as: 0 = UNKN, 2, 4, 6, 8, 10 = NO BLISTERS, N/A 77. Blistering Density Bottom - Enter as: U = UNKN, F = FEW, M = MED, MD = MEDDENSE, D = DENSE, N/AI. Enter the following information into the Structural Integrity Data section of the Tank and Void Inspection Form: 78. Structural Integrity Compromised by Corrosion Indicate whether or not the structural integrity of the tank was compromised by corrosion (i.e., rust holes). Enter as: YES, NO, UNKN 79. Structural Integrity Requires Repair - Enter as: YES, NO, UNKN NOTE 6: A compromise of the structural integrity of a tank requires immediate attention and a significant repair effort. Submit work request for emergent repairs. Additional inspections and data may be required by others. Include data from the additional inspection in the Additional w Comments block or attach copy of inspection results to the report for this inspection. 읶 2 80. Frames - Enter frames member size and linear feet. 81. Longitudinals - Enter frames member size and linear feet. 82. <u>Webs</u> - Enter webs member size and linear feet 83. $\overline{\text{T-Bars}}$ - Enter T-Bars member size and linear feet. Total Linear Feet of Structure Requiring Repair Automatic entry with previous data Total Square Feet of Plating Requiring Repair Enter total square footage of plating requiring repair MAINTENANCE REQUIREMENT CARD (MRC) OPNAV 4790 (REV. 2-82)

J. Enter the following information into the Seachest Data section of the Tank and Void Inspection Form: <u>Seachest Present</u> - Enter as: YES, NO, UNKN Seachest Number - Each seachest is numbered. The number should be entered on the Damage Control (DC) plate outside the tank access. It is also available from the Damage Control Assistant (DCA). Enter seachest number 88. Seachest Valve Number - Each seachest has a valve used to control the flow of water into or out of the tank. Enter the number of the valve associated with the seachest for the tank being inspected. The number should be entered on the DC plate outside the tank access. It is also available from the DCA. Enter the seachest valve number. 89. <u>Valve Operating Station</u> - Seachest valves may be operated from a remote valve operating station. Enter the location/designation of the valve operating station used to actuate the seachest valve. This data is available from the DCA. Enter the valve operating station location. K. Enter the following information into the Piping Data section of the Tank and Void Inspection Form: 90. Piping - Enter as: YES, NO, UNKN 91. All Piping CUNI - Copper/Nickel (CUNI) piping has been proven to be highly resistive to corrosion and is the material of choice for piping systems regularly exposed to corrosive liquids. Inspect all piping visually and with a magnet. CUNI piping does not rust, has no rust bleed and is non-magnetic. Enter as: 읶 YES, NO, UNKN, N/A 92. Only Butt Weld Joints in Piping 3-1/2 inches and larger - All joints on piping 3 1/2" in diameter and 12 greater should be butt welded. Enter as: YES, NO, UNKN, N/A 93. Only Butt Weld or Pre-Inserted Silver Braze Joints in All Piping 3 inches Diameter and Smaller - Face-fed silver brazed joints in tanks may fail and should be removed. Only pre-inserted silver brazed joints and butt welded joints are permitted. Enter as: YES, NO, UNKN, N/A 94. CUNI Flange Above Suction Bellmouth flange should be located above any suction bellmouth for hydrostatic testing. Enter as: YES, NO, UNKN, N/A 95. All Segmented Fittings Removed - Segmented pipe fittings have been shown to be very AAAA susceptible to failure (i.e., collapsing) and should have been removed from all piping systems. Enter as: YES, NO, UNKN, N/A z MAINTENANCE REQUIREMENT CARD (MRC) OPNAV 4790 (REV. 2-82)

PROCEDURE (Contd)

		RE (Contd)	
2.	D1	screpancy Reporting	
	A.	Record all discrepancies identified on applicable SEMAT discrepancy reporting forms (OPNAV 4790/2K or Material Assessment Form). Follow the latest preservation protocol, listed in the Preservation/Protocols for COMNAVSURFLANT Tanks and Voids, in making repair recommendations. Repairs to the tank structure are to be reported separately from coating repairs.	
3.	Da	ta Submittal	
	Α.	Upon completion of tank or void assessment, the Tank & Void Inspection Form and all Discrepancy Reporting Forms recorded shall be submitted to the Assessment Team logistician for recording and update of Ship's SNAP.	
	В.	Upon completion of the Assessment visit, the Assessment Team Tank & Void Co-ordinator shall forward all completed Tank & Void Inspection Forms to SUPSHIP Portsmouth Code 222, CCBM Support, for update of the SEMAT Tank and Void Database.	
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			PAGE 12 OF 12
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		TANK AND VOID						
GENERAL DATA		ADD:		DATE: □	DELETE:		HISTORY	
1. UIC:	2. Ship Class:	3. Ship's N	ame:			4	4. Hull:	
5. Tank:	6. Service:							
7. SWLIN:	8. Tank Area:	9. Gallons:		10. Solid B	allast:	1	11. WC:	
12. Access:								
13. APL:	14. RIN:	15. Key Co	de:	16. Source				
17. Date: 18	Inspection Reason	on:		19. Inspect	or's Name:			
ACCESS DATA								
20. Tank Top Corrosion:			21. Manhole	e cover. gaske	et, and fasteners			
20. Tanat Top Corresion			21.1/14.11.01	o co ver, guerre	ou, und rusteriors			
I ADDED DAMA								
LADDER DATA			22 E 1 : 4	17 11 D	1			
22. Fabricated Ladder Preser			23. Fabricat	ed Ladder Da	imaged:			
24. Fabricated Ladder Mater	ial:		26 W 11 1	D D	1			
25. Welded Rungs Present:27. Hand/Foot Holes Present				Rungs Dama				
27. Hand/Foot Holes Present			28. Hand/F0	oot Holes Dar	nagea:			
VENT/OVERFLOW DA	ATA							
29. Vent/Overflow in Tank:			30. Check V	/alve Installed	1:			
31. Vent/Overflow Line CUI	VI ½ way up:							
TANK LEVEL INDICA	TOR (TLI) DA	TA						
32. TLI Present in Tank:			33. TLI Dar	naged:				
34. TLI Type:			35. Old Tan	k Top Penetr	ation Present:			
36. Old Tank Top Penetratio	n Welded Closed:		37. King Ga	ige Tubing Ro	emoved/Plug W	elded:		
SOUNDING TUBE DAT	ГА							
38. Sounding Tube Present is			39. Soundin	g Tube Dama	nged:			
40. Deck Fitting damaged:			41. Stuck B					
42. Is Material CUNI:			43: Vent Ho	oles Present:				
44. Striker Plate on Ship's St	tructure:			Plate on Soun	ding Tube:			
46. Striker Plate Damaged:			47. Take Do	own Joints Ins	stalled:			
48. CRES Label Plate Install	ed:							
CATHODIC PROTECT	TION DATA							
49. Cathodic Protection in Ta			50. Bottom	Quantity:				
51. Sides Quantity:	ank.			depletion Per	centage:			
53. Sides Depletion Percenta	ide.		32. Dottom	depiction i ei	centage.			
33. Blacs Depiction I creenta	igo.		<u> </u>					
COATING DATA		COATING ADI.			COATING	TNI.		
COATING DATA		COATING APL:	55. Date Ta		COATING R	IIN:		
54. Tank Painted:	1.							
56. Surface Preparation Methods. Paint System 1st Coat:	noa:		57. Painting	Method:				
59. Paint System 1 Coat:								
59. Paint System 2 rd Coat:								
60. Paint System 3 rd Coat: 61. Paint System 4 th Coat:								
62. Total Square Feet of Tar	als Decomposion in	Condition 1.						
· · · · · · · · · · · · · · · · · · ·								
63. Total Square Feet of Tar								
64. Total Square Feet of Tar65. Total Square Feet of Tar								
66. Paint Condition Top:	IN FICSCI VAUOU III	67. Blistering Size To	n:		8. Blistering De	neits, T	'on:	
69. Paint Condition Top:		70. Blistering Size Sid			8. Blistering De			
72. Paint Condition T-Bars:		73. Blistering Size T-l			4. Blistering De			
75. Paint Condition 1-Bars:		76. Blistering Size Bo			7. Blistering De			
13. Faint Condition Dottom:		70. Difficiling Size B0	u∪III.	1	7. Dustering De	monty B	ouom.	

REV. 9/7/99

TANK AND VOID INSPECTION SHEET

STRUCTURAL INTEGRITY DATA					
78. Structural Integrity Compromised by Corr	osion: 7	9. Structural Integri	ty Requires Repair:		
Structure Element	Member Size		Linear Feet		
80. Frames:					
81. Longitudinals:					
82. Webs:					
83. T-Bars:					
84 Total Linear Feet of Structure Requiring Repair:					
85. Total Square Footage of Plating Requiring Repair:					

SEACHEST DATA				
86. Seachest Present:	87. Seachest Number:			
88. Seachest Valve Number:	89. Valve Operating Station:			

PIPING DATA	
90. Piping	91. All Piping CUNI:
92. Only Butt Weld (no silver braze) Joints in	93. Only Butt Weld or Pre-Inserted Sliver Braze
all Piping 3 1/2" in Diameter and Larger:	Joints in all Ping 3" Diameter and Smaller:
94. CUNI Flange Above Suction Bellmouth:	95. All Segmented fittings removed:
96. All Piping Stayed and Supported:	97. Heating Coils Present:
96. Heating Coil Bulkhead Penetrations	99. Deck Drain Present:
Cropped out and Plug Welded:	
100. Deck Drain Damaged:	101. Deck Drain Remotely Operated:

TANK CLOSEOUT				
102. All Damage Control Plugs, Blank Flanges, Temporary Hangers, Fry Pans, Staging Supports, Debris				
Removed from Tank:				
103. Picture Taken:	104. How Many:			

ADDITIONAL COMMENTS	(Inspectors, please include JCN's and work scheduled or anticipated in comments)	
	RE	V. 9/7